

MONTHLY UPDATE

February 2014

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Participation Opportunities

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Volunteers Needed for IowaBio's SSTFI Judging Panel

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Judges Needed for March 28, 2014!

This year's fair is taking place on **Friday, March 28th** and IowaBio is looking for judges to participate on our scholarship judging panel! This will require participation from approximately 9:00am-1:00pm where you will interview pre-selected projects and score them using a designated form. Near the end of the afternoon, the judging panel will reconvene and select the top five projects to receive scholarships. If you are interested in being an IowaBio Scholarship Panel judge, [please click here](#).

About the Event

The [State Science & Technology Fair of Iowa](#) (SSTFI) is affiliated with the Intel International Science & Engineering Fair, the world's premier pre-collegiate science fair. The SSTFI is open to any student in the state of Iowa in grades 6-12. During the event, over 400 student research projects presented by more than 500 students are judged on the following criteria: creative ability, scientific thought or technology goals, research thoroughness, technical skill, clarity and dramatic value in the oral presentation.

The event culminates with the Grand Award Ceremony where over \$80,000 in scholarships and prizes provided by generous Iowa sponsors are awarded to Iowa students for their excellence in research. In addition, trips to the Intel International Science & Engineering Fair are awarded to the top two individuals, the top team project and their teachers.

Each year, Iowa Biotech Association awards five scholarships to students for exhibiting the best use of biotechnology. Awardees attending an in-state institution of higher learning are awarded a \$2,000 scholarship while those attending an out-of-state institution are awarded a \$1,000 scholarship. Since 2000, the IBA has given 68 scholarships to Iowa students who presented at the SSTFI.

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Real World Externships

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What is a Real World Externship?



The Real World Externships for Teachers of Mathematics, Science and Technology is a core program of the Governor's STEM Advisory Council aimed at providing educators an experience that will allow them to inform students about mathematics, science and technology-related fields by working side-by-side with knowledgeable and skilled employees at the local business level. Created from the requests of Iowa students wanting to know, "When am I ever going to use this?", the Externship program provides educators with the exposure to answer this question and improve the educational experience of Iowa's students.

Externships are full-time, six week temporary summer positions in local businesses and agencies for secondary teachers of mathematics, science and/or technology. Teachers earn a stipend of up to \$4,500, as well as one graduate credit through the University of Northern Iowa's Continuing Education program.

This unique school and business alliance launched in the summer of 2009 aims to:

- Create lasting partnerships between businesses/industries and local schools.
- Connect Extern experience directly to STEM content and 21st Century Skills identified in the Iowa Core.
- Give students real-world career information about career possibilities right here in Iowa.
- Give teachers the opportunity to see and use the latest real-world applications STEM disciplines in a local business or industry.

To learn more about Real World Externships, please [click here](#) or visit <http://iowastem.gov/externships>.

New Member Spotlight

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Kirkwood Community College

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If you spend any time at any Kirkwood Community College location, you probably hear some version of these few words: **"We are the community's college."**

Within that key word—community—our college reaches out to help people learn, build skills and improve lives. It's what we have been about since our founding in 1966, when a few dedicated people launched a new kind of higher education with little more than determination, toil and vision. We take that idea to heart and try our best to live the spirit of that idea every day. In many ways, we reflect the neighborhoods and towns throughout our seven-county service area. But we are also a part of a wider community, working in partnership with our many four-year colleges and universities, business and industry partners, and the wide web of active citizens from whom we draw strength, wisdom and guidance.

Today, we provide education to nearly 25,000 students in college credit classes and another 41,000 people in our continuing education and training programs. During this last year, we welcomed students from every county in Iowa, more than 30 other

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states and 90-plus other nations. But mainly we welcome our own to our dozen Kirkwood locations: of every 20 students, 19 of them come from within 50 miles of Cedar Rapids. Some are too young to have a driver's license. Hundreds more are members of AARP. Their common bond is that desire to learn that keeps them going. This spirit drives us to seek new learning possibilities for everyone we serve. It is that spark and desire that pushes motivated humans ahead and has fueled human progress for centuries.

That desire to always be a little better, to grow a bit wiser tomorrow than we are today is at the core of what Kirkwood Community College is all about in the second decade of a new millennium. This spirit of continuous improvement propels us in every aspect of student service, educational standards and community responsiveness, even to our approach to accreditation. This path is by no means easy. Nothing of great worth and deep importance ever is.

Biotechnology at Kirkwood

From designing plants that produce better crops to finding cures to disease, biotechnology has made a mark on modern life. Most seldom realize nearly everything in our lives, including the food we eat, the clothes we wear and the various products we use every day, is touched in some way by biotechnology.

Kirkwood's Biotechnology students first learn to operate and maintain lab equipment and adhere to guidelines related to safety and regulatory compliance. Later in the program, students prepare solutions and reagents; explore microbiology, cell biology, immunology, and genetic engineering and molecule biology; isolate and characterize proteins; and perform chemical assays.

Students will have proficiency in documenting scientific results, processing material, complying with current industrial regulations relating to quality control and assurance, and exhibiting individual qualities necessary for success in biotechnology related fields.

Students who complete this program have become valued and productive members of Iowa's workforce. Companies such as Bio-Research Products Inc., Integrated DNA Technologies Inc., State Hygienic Laboratory at the University of Iowa, and JMI Laboratories, which require these specific skill sets and hands-on experience, hire them on. These companies, along with others such as Cellular Engineering Technologies Inc. and Red Star Yeast Company, provide internships and invaluable true-life experiences.

For more information about Kirkwood's Biotechnology Program, please contact Greg Petersen, Coordinator of Biotechnology, at 319-398-5899, ext. 5987 or greg.petersen@kirkwood.edu.

Website: www.kirkwood.edu

Kirkwood at a Glance: www.kirkwood.edu/ataglance

Programs of Study: www.kirkwood.edu/programs

Twitter: www.twitter.com/KirkwoodCC

Facebook: www.facebook.com/kirkwoodcommunitycollege

Upcoming Events

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Midwest Events

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Pittcon 2014

March 2-6, 2014 / Chicago, IL

Pittcon is the world's largest annual premier conference and exposition on laboratory science. It is organized by The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, a Pennsylvania not-for-profit educational corporation which is comprised of the Spectroscopy Society of Pittsburgh (SSP) and the Society for Analytical Chemists of Pittsburgh (SACP). Pittcon attracts more than 18,000 attendees from industry, academia and government from 90 countries worldwide and is managed by a committee of volunteers and a 11-person staff.

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Biomass Crop Production Workshop

March 4, 2014 / Iowa City, IA

This workshop will provide information about miscanthus and other perennial bioenergy crops for energy generation in Iowa. Farmers, energy producers, land managers and anyone interested in biomass production are welcome to attend and learn more. This year's workshop is being co-sponsored by the University of Iowa Office of Sustainability and will focus on perennial bioenergy crops to be planted as part of the UI Biomass Power Partnership as UI transitions to 40% renewable energy by 2020.

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One Health Biomanufacturing Summit & Industry Expo

March 5-6, 2014 / Kansas City, KS

The 2014 Summit is for bioscience industry companies, research enterprises, and supporting organizations. Topics cover human and animal health, manufacturing strategies, regulatory issues, and cell-culture production. Speakers and topics appeal to a broad audience of senior level industry professionals working within manufacturing, process development and product operations, as well as civic leaders and educational professionals with an interest in people, animals and the environment.

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Iowa Governor's Conference on Public Health

April 1-2, 2014 / Ames, IA

The Iowa Governor's Conference on Public Health is a one-of-a-kind event blending many facets of public health. This unique conference is planned by a group of partners, including: Child Health Specialty Clinics, Iowa Counties Public Health Association, Iowa Department of Public Health, Iowa Environmental Health Association, Iowa Public Health Association, State Hygienic Laboratory at the University of Iowa, and the University of Iowa College of Public Health. Over 500 public and environmental health professionals are expected to attend the 2-day conference.

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Global Events

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5th International Conference on Food Engineering and Biotechnology

*March 12-14, 2014
Penang, Malaysia*

International Biomass Conference & Expo

*March 24-26, 2014
Orlando, FL*

PEGS China

*April 1-3, 2014
Shanghai, China*

Adoptive T Cell Therapy Conference

*May 7-8, 2014
Boston, MA*

BIO World Congress on Industrial Biotechnology

*May 12-15, 2014
Philadelphia, PA*

BIO International Convention

*June 23-26, 2014
San Diego, CA*

All events can be found on our website's [Events Calendar](#)

Prometheus Awards

April 9, 2014 / Des Moines, IA

The Prometheus Awards have been established as Iowa's largest and most prestigious distinction dedicated to recognizing and celebrating the innovation and brilliance of Iowa's high-tech industry. This ceremony honors both companies and individuals who have demonstrated outstanding leadership and excellence in technology.

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Global Food Security Consortium and the Leroy and Barbara Everson Seed and Biosafety Symposium

April 29-30, 2014 / Ames, IA

We are pleased to invite you to the Global Food Security Consortium Spring Symposium scheduled April 29-30, 2014 in Ames, IA. This symposium is entitled "**Closing the Yield Gap**". Three sessions are planned under this broad theme: *Seeds and Crops*, *Animals* and *Sustainable Intensification*. The symposium is sponsored jointly by funding from the ISU Presidential Initiative supporting the Global Food Security Consortium and by a generous contribution from the family of Leroy Everson, former director of the Seed Laboratory to the ISU Seed Science Center.

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SMART Economic Development Conference

May 1, 2014 / Des Moines, IA

The annual SMART Economic Development Conference is Iowa's largest annual conference devoted to economic development.

The conference, now in its 29th year, is co-sponsored by the investor-owned electric and natural gas companies of the Iowa

Utility Association (IUA) and by the Iowa Economic Development Authority (IEDA). The conference annually attracts approximately 500 economic development professionals, business leaders, chamber of commerce executives, community leaders, elected officials and other board members who influence economic development and public policy issues statewide and within their own communities.

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Save the Date! — IowaBio 4th Annual Golf Outing

June 5, 2014 / Norwalk, IA

IowaBio will be hosting its Fourth Annual Golf Outing on Thursday, June 5, 2014, at The Legacy Golf Club in Norwalk, Iowa. The outing is for IBA members and affiliates, and is a great opportunity to enjoy some sun, meet other IowaBio members and become more familiar with our vendors, who we thank for generously sponsoring these events. We kindly encourage attendees to bring a member from their Purchasing/Procurement department so they can learn more about IowaBio's vendors and discounts

available through our **BioVantage Program**.

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Livestock Biotech Summit

September 16-18, 2014 / Sioux Falls, SD

This unique conference offers a focus on genetic engineering of agricultural animals including benefits, research and development, regulatory system, and challenges to advancing health, food and industrial applications of animal biotechnology.

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Industry News

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News stories containing company logos indicate IowaBio members

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Food & Agriculture



- ✔ **Feed Energy** Announces 2014 “**Excellence in Ag**” Scholarship Program



- ✔ **Diamond V** planning Cedar Rapids **plant expansion**



The miracles of science™

- ✔ **DuPont Pioneer** and **Two Blades Foundation** to Develop Durable **Resistance Against Asian Soybean Rust**
- ✔ **EU executive set to back new GM crop**, member states divided



- ✔ **Farm Bill Will Open Opportunities** in Renewable Chemicals and Biobased Manufacturing



- ✔ Project seeks **crop systems** to profit **farmers, clean air**
- ✔ 6 ways the newly passed **farm bill will impact Iowa**
- ✔ **Branstad, Reynolds** Applaud Announcement of **Borlaug Statue Installation** at U.S. Capitol Building
- ✔ **Scotts** tests **genetically modified grass seed** at homes
- ✔ **Genetically Modified Maize** Does Not Reduce **Biodiversity**
- ✔ Food industry seeks **voluntary GMO labeling**
- ✔ Food Industry Forms **Group to Stop Gene-Modified Labeling**
- ✔ We Need **G.M.O. Wheat**
- ✔ WSU scientists making **poplars with rose scent**
- ✔ Bring **Biofortified's Frank N. Foode™** to Life!
- ✔ China to make **bioplastic from waste cooking oil**
- ✔ **Biotech Crops Show Three Percent Global Growth Rate** Over 2012
- ✔ Genetically modified **potatoes 'resist late blight'**
- ✔ Netherlands manufacturer picks **Cedar Falls site for its first U.S. facility**
- ✔ Researchers map **genome of strawberry**

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Healthcare & Pharmaceutical

Lilly

- ❖ **Lilly heralds a lung cancer victory** for blockbuster hopeful **ramucirumab**
- ❖ New **mouthwash targeting harmful bacteria** may render tooth decay a thing of the past
- ❖ **JPMorgan dad turns biotech CEO** in quest to save his son
- ❖ **Stem Cell Bank** to Consolidate Europe's **Stem Cell Surplus**
- ❖ Data on more than **10,000 cancer genomes released** by the International Cancer Genome Consortium
- ❖ **Furiex IBS drug** succeeds in large trials
- ❖ Growing **Stem Cells** on **Carbon Nanotubes**
- ❖ Appeals Court Says **Stem Cells May be Regulated as Drugs**, Affirming Low Court's Decision
- ❖ **Small Molecule Therapeutic** Designed from Only an **RNA Sequence**
- ❖ **GlaxoSmithKline R&D chief** touts the **future of 'electroceuticals'**
- ❖ Antibody makes **humanized mice immune to HIV**
- ❖ U.S. FDA approves **BioMarin's genetic disorder drug Vimizim**
- ❖ Drug Quality Concerns Spur **New U.S. FDA Oversight Effort**
- ❖ **Scientists 'grow' human lungs** in lab for first time
- ❖ **Protein linked** to invasive spread of **triple-negative breast cancer** may lead to targeted therapies
- ❖ **Personalized T cell** attack spurs complete **remissions of leukemia**
- ❖ **Fecal Transplant Rivals Antibiotics** for *C. difficile* in Cost Model
- ❖ New drugs "set to **transform Latin American diabetes market**"
- ❖ Scientists Develop New Molecular "Cocktail" to **Transform Skin Cells into Beating Heart Cells**
- ❖ **Merck sends HPV vax** to FDA

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Industrial & Environmental

IOWA STATE
UNIVERSITY

- ❖ Project seeks **crop systems** to profit **farmers, clean air**
- ❖ Iowa State Engineers **Upgrade Pilot Plant** for Better Studies of **Advanced Biofuels**
- ❖ **Louis Dreyfus** to install **ICM's SMT** at 2 plants
- ❖ **Solazyme** jumps 12% after **Iowa projects** come online
- ❖ **REG** breaks ground on \$13.2M **upgrade to Newton biodiesel plant**
- ❖ **Iowa's Attorney General** says EPA can't legally **cut RFS**
- ❖ **POET-DSM** says **Iowa cellulosic ethanol plant** running by June
- ❖ **Biofuels Digest's SuperData Free Access** update: **185** free biofuels downloads
- ❖ **Mitsubishi Chemical** reveals new grade **engineering plastic**
- ❖ **Bio-on** hopes its **bioplastics** will **replace metal**, too
- ❖ **Tips For The Successful Launch Of A New Biobased Chemical**
- ❖ **Gasoline-Like Biofuels From Plant Waste** — Promising New Process Developed
- ❖ **Tesla's lesson** in building a market for **new automotive technologies**
- ❖ Search is underway for site of **first industrial sugarbeet plant**
- ❖ The **Oil Industry's Fight to Kill Renewable Fuels**—and Why It May Win
- ❖ China to make **bioplastic from waste cooking oil**
- ❖ **Firefighters turned chemists: Rio Rico Fire** leading charge on **Biodiesel**
- ❖ **EcoMow Lawnmower Fuels Itself** With Freshly Cut **Grass**
- ❖ **Duckweed** Has Potential As **Biofuel Source**
- ❖ **EPA Director** Addresses **Ethanol Conference**
- ❖ **Lego** investigates shift to **bioplastics**

Industrial & Environmental
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In Other News...

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Governor Branstad, Lt. Governor Reynolds Applaud Announcement of Borlaug Statue Installation at U.S. Capitol Building

Event to take place on 100th anniversary of Norman Borlaug's birth

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Governor Terry E. Branstad and Lt. Governor Kim Reynolds applauded House Speaker John Boehner and other congressional leaders' announcement today that a statue of Iowa's Dr. Norman E. Borlaug will be installed at the U.S. Capitol Building in Washington, D.C., on March 25.

"The unveiling will be a historic event and celebration of Dr. Borlaug's legacy. His agricultural innovations saved an estimated billion people around the world from hunger and starvation," Governor Branstad said. "It is a fitting tribute that our state and nation will honor Dr. Borlaug on the 100th anniversary of his birth and on National Agriculture Day."

"The installation of Dr. Borlaug's statue will be a once-in-a-lifetime experience and a proud moment for our state," Lt. Governor Reynolds said. "Dr. Borlaug's statue will stand in honor of all that he achieved to help so many around the world. I am very pleased visitors to the U.S. Capitol will be able to learn more about Dr. Borlaug and highlight our state's leadership in agriculture, the biosciences, and STEM education."

Dr. Borlaug, a Cresco native, dedicated his life to breeding better varieties of wheat, and working with farmers and politicians alike to improve methods and policies to alleviate hunger and malnutrition worldwide. His achievements earned him recognition as "Father of the Green Revolution" and the distinction of receiving the Nobel Peace Prize, the Presidential Medal of Freedom, and the Congressional Gold Medal, America's highest civilian honor.

In 2011, the Iowa Legislature approved a resolution and Governor Branstad appointed the Dr. Norman E. Borlaug Statue Committee to raise funds and commission an artist to design, create and install a statue of Borlaug into the U.S. Capitol Building. After conducting a worldwide artist search, the committee chose Benjamin Victor of South Dakota.

"From our decade of working together, I knew Dr. Borlaug – our state's and our country's greatest agricultural scientist – to be the most humble, hard-working and inspiring person I ever encountered," said Ambassador Kenneth M. Quinn, President of Borlaug's World Food Prize Foundation and the Chairman of the Statue Committee. "Our committee extends our profound appreciation to Governor Branstad, Lieutenant Governor Reynolds, the bipartisan leadership of the Iowa Legislature, and the entire Iowa congressional delegation for the privilege to be part of this project, as well as to the artist Ben Victor for his magnificent creation of Dr. Borlaug's statue, and DuPont Pioneer and an anonymous donor for their great generosity in funding the cost of fabricating and installing the Borlaug statue."

"The global impact that Dr. Borlaug had is an example and a challenge to all of us as we look to the future and Iowa's role in feeding and fueling a growing world," said Iowa Secretary of Agriculture Bill Northey. "The installation of this statue will be a great opportunity to celebrate Dr. Borlaug and help inspire others, especially our youth that he was so passionate about, through his amazing story."

The statue of Borlaug will be part of the National Statuary Hall Collection at the U.S. Capitol Building, where each state is represented by two statues of notable citizens. The statue of Borlaug will replace the statue of U.S. Senator James Harlan installed in 1910, which will be relocated to Mount Pleasant, Iowa. The second statue representing Iowa is of Governor Samuel Kirkwood, installed in 1913.

Iowans are invited to participate in this momentous milestone in our state's history. Visit www.iowaborlaugstatue.org information about the statue and related events, including a link to the webcast of the March 25 ceremony. That site also includes information about a documentary on this project created by Iowa Public Television, and links to resources on www.worldfoodprize.org/norm where people can learn more about the Borlaug Centennial and get involved in sharing Dr. Borlaug's mission to fight hunger.

Subscriber Information

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This message was sent to you as a benefit of membership with IowaBio and/or a subscriber of our monthly newsletter. If you know of a company that would benefit from the Association's advocacy, financial savings and education/workforce focus, please have them contact the Association at 515-327-9156 or email info@iowabio.org. Membership details are also available at www.iowabio.org/membership.

If you would like more information on any topic or no longer wish to receive these messages, please email melissa@iowabio.org or call 515-494-9242.

Speaker Opportunities

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IowaBio staff members are available to give 15-60 minute speeches to interested groups, such as Rotary Clubs, trade associations, or civic groups. A broad range of topics could be discussed, included biotechnology, healthcare, food vs. fuel, legislative policy, investment and more. Contact Melissa Moyer at (515) 327-9156 or melissa@iowabio.org.